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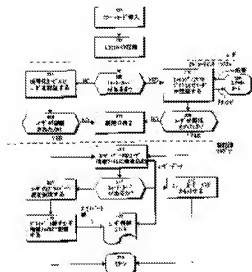
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(54) SYSTEM AND METHOD FOR TRANSMITTABLELY INTEGRATING PRIVATE KEY OPERATION FROM SMART CARD WITH CIPHERING SERVICE OF HOST BASE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide system and method for transmittably integrating the private key operation of a smart card with the group of an existing ciphering service and system application.

SOLUTION: A key storage manager manages user key data and processes a key operation request from the system application. A user information file stores the user private key of a user who does not poss the smart card and user data including the index of the user having the smart card. A pair of system applications are interfaced with a key storage manager through API designating a ciphering protocol. The user is connected to a system through a terminal to which a smart card reader can be fitted and a remote computer. In the user having the smart card, the key storage manager transmits a private



key operation request which is ciphered or decoded by the private key of the user to the smart card. Thus, the private key of the user is prevented from leaking even when a computer system is invaded. In the user who does not have the smart card, the key storage manager transmits the private key operation request to a ciphering service.